

****ATTENTION****

This document is provided for historical purposes only.

Documents contained in the Washington Department of Fish and Wildlife Document & Publication Archive may contain dated and/or incorrect information. The WDFW Document & Publication Archive is provided as a service to those interested in the history of fish and wildlife management in Washington State.

5/91

Long-horned Leaf Beetle

Donacia idola

Range:

Lowland sphagnum bogs of Washington (Johnson 1979) and southwest British Columbia (Hatch 1971, Leech 1943).

Washington Distribution:

Historically known only from Snohomish County.

Habitat Requirements:

The Long-horned leaf beetle inhabits eutrophic sphagnum bogs in or near lakes below 1000m (3280'). Long-horned leaf beetle larvae feed on submerged portions of aquatic plants. Adults feed on exposed portions of aquatic plants (White 1983), especially lilies and potamogeton.

Limiting Factors:

Unknown.

Management Recommendations:

Activities that might alter the condition of sphagnum bogs should not occur where long-horned leaf beetles reside. These include peat mining, filling, draining, construction within the bogs, and other activities. Changing the natural water level or flow rate within the bogs should also be prevented.

Insecticides, and herbicides that could damage wetland vegetation, should not be applied in or near sphagnum bogs. Persons wanting to apply chemicals to adjoining lands should not apply them if stormwater runoff or wind drift will carry the chemicals into the bog. Decisions about chemical applications should be made on a site specific basis and should consider type of chemical used, season, topography and other relevant features.

Urban runoff waters may contain pesticides and other pollutants that could be harmful to adult or larval beetles. Therefore, stormwater runoff from surrounding developments should not be diverted into sphagnum bogs.

Exotic fish could potentially prey on beetle larvae and should not be introduced into wetlands occupied by long-horned leaf beetles.

References:

Hatch, M.H. 1971. The beetles of the Pacific Northwest. University of Washington Publications in Biology 16:28-29.

Johnson, P.J. 1979. A report on a survey for Beller's ground beetle on the North Fork of the Snoqualmie River,

King County, WA. Unpublished document.

Leech, H.B. 1943. Miscellaneous records of beetles in British Columbia. Proc. Ent. Cos. B.C. 40:26-27.

White, R.E. 1983. A field guide to the beetles of North America. Houghton Mifflin Co., Boston, Mass.

Key Points:

Habitat Requirements:

- Inhabit sphagnum bogs below 914m (3000') elevation.

Management Recommendations:

- Prevent activities that may alter the condition of sphagnum bogs (e.g., peat mining, filling, draining, construction).
- Avoid altering the natural water level or flow rate within sphagnum bogs.
- Avoid applying insecticides or herbicides in or near sphagnum bogs.
- Avoid diverting stormwater runoff into sphagnum bogs.
- Do not introduce exotic fish into lakes or wetlands associated with sphagnum bogs.